Index of Claims

10/721,180

Date

Examiner

Joseph L. Perrin, Ph.D.

Applicant(s)/Patent under Reexamination

BANG, JONG CHUL

Art Unit

1746

| √ | Rejected |
|---|----------|
| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

Claim

| N | Non-Elected  |
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| I | Interference |

| 1 | 4 | Appeal   |
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| Cla           | Date                                   |            |              |              |              |          |                |  |              |          |  |
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| Final         | Original                               | 2/8/07     |              |              | •            |          |                |  |              |          |  |
|               | 1                                      | -          |              |              |              |          |                |  |              | t        |  |
|               | 1<br>2<br>3<br>4<br>5                  | -          |              |              |              |          |                |  |              |          |  |
|               | _ 3                                    | <u>-</u>   |              |              |              |          |                |  |              |          |  |
|               | 4                                      | <u> </u> - |              |              |              |          |                | L  |              |          |  |
|               | 5                                      | <u>-</u>   | _            | _            |              | <u> </u> |                |  |              |          |  |
|               | 6<br>7                                 | -          | ļ            | _            | _            | <u> </u> | <u>L</u>       | <u> </u>   | _            | L        |  |
|               | 7                                      | -          | _            | _            | _            | <u> </u> | _              | ļ  | _            | <u> </u> |  |
| <del></del> - | 8<br>9<br>10                           | <u> </u>   | <u> </u>     | <u> </u>     |              | <u> </u> | _              | <u> </u>   | _            | ╙        |  |
|               | 40                                     | Ŀ          | <u> </u>     | <u> </u>     | <u> </u>     | <u> </u> | <del>  _</del> | ┞  | <u> </u>     | <u> </u> |  |
|               | 10                                     | -          | <u> </u>     | _            | ⊢            | <u> </u> | $\vdash$       | ├-   | ⊢            | ┞        |  |
|               | 12                                     | <u> </u>   |              |              | ⊢            | -        | -              | -  | ├-           | ⊢        |  |
|               | 13                                     | -          | $\vdash$     | _            | $\vdash$     | $\vdash$ | $\vdash$       | ├  | ⊢            | $\vdash$ |  |
|               | 11<br>12<br>13<br>14<br>15<br>16       | -          | $\vdash$     | <del> </del> | $\vdash$     | -        |                | $\vdash$   | $\vdash$     | $\vdash$ |  |
|               | 15                                     | -          | $\vdash$     | -            |              | -        |                | ┢  | <del> </del> | -        |  |
|               | 16                                     | -          |              |              | ┢            | $\vdash$ |                | <del>                                     </del> |              | ┝        |  |
|               | 17                                     | -          | _            |              | <del> </del> |          |                | ┢  |              | ┢        |  |
| •             | 18                                     | -          | _            |              | $\vdash$     |          | $\vdash$       | $\vdash$   |              | $\vdash$ |  |
| -             | 18<br>19                               | -          |              | $\vdash$     | $\vdash$     | $\vdash$ |                | _  |              | $\vdash$ |  |
|               | 20                                     | -          |              |              |              |          | $\vdash$       | $\vdash$   |              | $\vdash$ |  |
|               | 21                                     | +          |              |              |              |          |                |  |              |          |  |
|               | 20<br>21<br>22                         | +          |              | Г            |              |          |                | $\vdash$   | Γ            | Г        |  |
|               | 23                                     | +          |              |              |              |          |                |  |              |          |  |
|               | 24                                     | +          |              |              |              |          |                |  |              |          |  |
|               | 25                                     | +          | _            |              | L_           |          |                |  |              |          |  |
|               | 26                                     | +          |              |              | L            | _        | _              | _  | _            | _        |  |
|               | 27                                     | +          |              |              | <u> </u>     | <u> </u> | <u> </u>       | _  | _            | _        |  |
|               | 24<br>25<br>26<br>27<br>28<br>29<br>30 | +          | _            | _            | <u> </u>     |          | _              | <u> </u>   | <u> </u>     |          |  |
|               | 29                                     | +          | _            |              | L            | <u> </u> | <u> </u>       | ⊢  | _            | <u> </u> |  |
|               | 31                                     | +          |              | _            | ⊢            | -        | ⊢              | <del> </del>                                     | H            | $\vdash$ |  |
|               | 32                                     | +          | _            | H            | -            | -        | ⊢              | ┢  | ⊢            | -        |  |
|               | 32<br>33                               | +          |              |              | -            | ┢        |                | ⊢  | -            |          |  |
|               | 34                                     | +          | <del> </del> | -            | <del> </del> | $\vdash$ | $\vdash$       | <del> </del>                                     | $\vdash$     | $\vdash$ |  |
|               | 35                                     | +          |              | Η-           |              | $\vdash$ | -              | -  | -            |          |  |
|               | 36                                     | +          | -            | -            |              | $\vdash$ | $\vdash$       | $\vdash$   | <del> </del> |          |  |
|               | 37                                     | +          |              |              | $\vdash$     |          | Г              | $\vdash$   |              | $\vdash$ |  |
|               | 38                                     | +          |              |              | Г            |          | Г              |  |              |          |  |
|               | 39                                     | +          |              |              |              |          |                | Г  |              |          |  |
|               | 40                                     | +          |              |              |              |          |                |  |              |          |  |
|               | 41                                     | +          |              |              |              |          |                |  |              |          |  |
|               | 42                                     | +          |              | $\Box$       |              |          |                | $\sqsubseteq$                                    |              |          |  |
|               | 43                                     | +          |              |              |              |          | <u> </u>       | <u>L</u>   | L            | Ш        |  |
|               | 44                                     | +          |              |              | <u> </u>     |          | <u> </u>       | <u> </u>   |              | Щ        |  |
|               | 45                                     | +          |              |              |              | _        | <u> </u>       | <u> </u>   | _            | Щ        |  |
|               | 46                                     | +          |              |              |              | -        | -              | $\vdash$   |              | Щ        |  |
|               | 47<br>48                               | +          |              |              | $\vdash$     | $\vdash$ | <u> </u>       | $\vdash$   | <u> </u>     | Н        |  |
|               | 48                                     | +          | _            |              |              | $\vdash$ | $\vdash$       | <del> </del>                                     |              | $\vdash$ |  |
|               | 50                                     | _          |              | _            |              | H        | -              | $\vdash$   |              | $\vdash$ |  |
|               | JU                                     |            |              | 1 1          | 1            | 1        |                | ı  |              |          |  |

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|----------------------|--|----------|----------|----------|--|----------|----------|---------------|----------|----------|
| Final                | Original   |          |          |          |  |          |          |               |          |          |
|                      | 51   |          |          |          |  |          | Ι.       |               |          | $\vdash$ |
|                      | 51<br>52<br>53   |          |          | $\vdash$ |  |          | 1        | _             |          | ╁        |
|                      | 53   | _        |          | -        | <del>                                     </del> |          | H        | $\vdash$      |          | ┢        |
|                      | 54   | _        | H        |          | ┢  | $\vdash$ | $\vdash$ | $\vdash$      | $\vdash$ | ┢        |
|                      | 54<br>55   |          |          |          | _  |          | Т        |               |          | H        |
|                      | 56   |          |          | _        | ┢  |          | <b>-</b> | _             |          | H        |
|                      | 57   |          | 一        |          | $\vdash$   | -        | _        | $\vdash$      | $\vdash$ | ┢        |
|                      | 57<br>58   |          |          |          | T  |          | <u> </u> |               |          | 1        |
|                      | 59   |          |          |          | ┰  |          |          | _             |          |          |
|                      | 60   |          |          |          |  |          |          |               | _        | Т        |
|                      | 61   |          | Г        |          |  | $\vdash$ |          | $\vdash$      |          | <u> </u> |
|                      | 62   |          |          |          |  |          | _        |               |          | T-       |
|                      | 63   |          |          |          |  |          |          | $\vdash$      |          |          |
|                      | 62<br>63<br>64<br>65                                     |          |          |          |  | Т        |          |               |          | ┪        |
|                      | 65   |          |          |          |  |          |          |               |          | Т        |
|                      | 66   |          |          |          |  | $\vdash$ |          |               |          | ┪        |
|                      | 66<br>67   |          | _        | _        |  |          |          |               | _        | Т        |
|                      | 68   |          | Т        | _        |  | $\vdash$ |          |               | $\vdash$ | Т        |
|                      | 68<br>69   |          |          |          |  | $\vdash$ | _        | $\vdash$      | _        |          |
|                      | 70   |          |          | _        |  | Г        |          |               | $\vdash$ | Г        |
|                      | 71   |          |          |          |  |          |          |               |          |          |
|                      | 72   |          |          |          |  |          |          |               |          | T        |
| *                    | 73   |          |          |          |  |          |          |               |          | _        |
|                      | 70<br>71<br>72<br>73<br>74<br>75<br>76<br>77<br>78<br>79 |          |          |          |  |          |          | $\overline{}$ |          |          |
|                      | 75   |          |          |          |  |          |          |               |          |          |
|                      | 76   |          |          |          |  |          |          |               |          | Г        |
|                      | 77   |          |          |          |  |          |          |               |          |          |
|                      | 78   |          |          |          |  |          |          |               |          |          |
|                      | 79   |          |          |          |  |          |          |               |          |          |
|                      | 80   |          |          |          |  |          |          |               |          |          |
|                      | 81   |          |          |          |  |          |          |               |          |          |
|                      | 82<br>83   | _        |          |          | <u> </u>   |          |          |               |          |          |
|                      | 83   |          |          |          |  |          |          |               |          |          |
|                      | 84   |          |          |          | _  |          |          | _             |          | L        |
|                      | 85   |          |          |          |  |          |          |               |          |          |
|                      | 86   | _        |          |          | _  |          |          |               |          | L        |
| <u> </u>             | 87   | _        |          |          |  |          |          |               |          | L        |
|                      | 88<br>89   |          |          |          |  |          |          |               |          |          |
|                      | 89   | _        |          |          |  |          |          |               | _        |          |
|                      | 90   | _        |          |          |  | _        |          | _             |          |          |
| $\vdash$             | 91   |          |          |          |  |          | _        | _             |          |          |
|                      | 92   |          |          |          |  |          |          |               |          | _        |
| $\vdash \vdash$      | 93   | -        | <u> </u> | _        |  |          |          |               |          | <u> </u> |
| $\vdash\vdash\vdash$ | 94<br>95   |          | $\vdash$ |          |  | $\vdash$ |          | _             |          | _        |
| $\vdash$             | 96   | $\dashv$ | $\vdash$ | _        | -  | $\vdash$ |          | -             | $\vdash$ | _        |
|                      | 97   |          |          |          | -  | $\vdash$ | _        | -             | -        | _        |
| <del>  </del>        | 98   | $\dashv$ |          | -        | -  |          |          | -             | $\vdash$ | _        |
| $\vdash$             | 99   | -        | $\vdash$ | -        |  | $\vdash$ | -        | -             | $\vdash$ | -        |
| $\vdash$             | 100  | -        | -        | -        |  |          | -        | -             | -        | $\vdash$ |
| ш.                   | 100  |          |          |          |  |          |          |               |          |          |

| CI        | Claim                                  |   |          | Date   |          |          |              |              |              |              |  |  |
|-----------|--|---|----------|--|----------|----------|--------------|--------------|--------------|--------------|--|--|
| Final     | Original                               |   |          |  |          |          |              |              |              |              |  |  |
|           | 101<br>102                             |   |          |  |          |          |              | _            |              |              |  |  |
| <b></b>   | 102                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 103                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 104                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 105                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 106                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 107                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 108                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 109                                    |   |          |  | 匚        | L        |              | L            | L            |              |  |  |
| <u></u>   | 110                                    |   | <u></u>  |  | _        |          | _            |              |              |              |  |  |
| L         | 111                                    |   | _        | L_   | _        | L        | L            |              |              |              |  |  |
|           | 112<br>113                             |   |          | _  | <u> </u> |          | _            |              |              |              |  |  |
| <u></u>   | 113                                    | L |          |  | <u> </u> | <u> </u> | _            | Щ.           | <u> </u>     |              |  |  |
| <u></u>   | 114                                    |   |          |  | <u> </u> |          | <u></u>      | _            |              |              |  |  |
|           | 115<br>116                             |   |          |  | <u> </u> |          | $oxed{oxed}$ |              |              |              |  |  |
|           | 116                                    |   |          |  |          | L        | _            | $oxed{oxed}$ | _            |              |  |  |
|           | 117                                    |   |          |  |          | _        | <u>_</u>     | _            | 匚            | $oxed{oxed}$ |  |  |
|           | 118                                    |   | _        | _  |          | L        | _            |              | L.           |              |  |  |
|           | 119                                    |   | _        |  | L        | _        |              |              | L            |              |  |  |
|           | 120                                    |   | <u> </u> |  | <u> </u> | L        | <u> </u>     | _            | _            | Ш            |  |  |
|           | 121<br>122                             |   | <u> </u> |  |          | <u> </u> | _            | L.           | L            |              |  |  |
| L         | 122                                    |   | _        |  |          | <u> </u> | <u> </u>     |              |              | Щ            |  |  |
|           | 123                                    | _ | _        | _  |          |          | <u> </u>     | L_           | <u></u>      | Щ            |  |  |
|           | 124                                    |   | L        |  |          | <u> </u> | _            | <u> </u>     | _            |              |  |  |
|           | 125                                    | _ | <u> </u> | _  |          | <u> </u> | _            | <u> </u>     | <u> </u>     | _            |  |  |
|           | 123<br>124<br>125<br>126<br>127<br>128 |   | _        | _  | <u> </u> | <u> </u> | <u> </u>     | _            | L            |              |  |  |
| -         | 127                                    |   | _        | ├  | _        | <u> </u> | -            | <u> </u>     | ┝            | H            |  |  |
| $\vdash$  | 120                                    |   | <u> </u> |  |          | $\vdash$ |              | <u> </u>     | ┝            | Н            |  |  |
| -         | 129<br>130                             |   | -        |  | _        | ┝        | $\vdash$     |              |              | $\vdash$     |  |  |
| $\vdash$  | 131                                    |   |          | _  | _        | ┝        | -            | _            |              | Н            |  |  |
|           | 132                                    | _ |          | -  |          | $\vdash$ | -            | _            | $\vdash$     | Н            |  |  |
|           | 132<br>133                             | _ |          | $\vdash$   |          | -        |              | $\vdash$     | $\vdash$     | Н            |  |  |
|           | 134                                    | _ |          | <del>                                     </del> | _        |          | $\vdash$     | -            | $\vdash$     | -            |  |  |
|           | 135                                    |   |          | $\vdash$   |          | $\vdash$ | $\vdash$     | _            | <del> </del> | H            |  |  |
|           | 135<br>136                             | _ |          | Н  | -        | _        | $\vdash$     | $\vdash$     | $\vdash$     | Н            |  |  |
|           | 137                                    |   |          |  |          |          | $\vdash$     | _            | $\vdash$     | Н            |  |  |
|           | 138                                    |   | П        |  | $\vdash$ | $\vdash$ | Н            | $\vdash$     | $\vdash$     | $\vdash$     |  |  |
|           | 139                                    |   |          |  | Н        |          |              | $\vdash$     | $\vdash$     | Н            |  |  |
| F -       | 140                                    |   | _        | Т  |          | М        | -            | $\vdash$     |              | $\vdash$     |  |  |
|           | 141                                    |   |          |  |          |          |              |              | _            | $\vdash$     |  |  |
|           | 142                                    |   |          |  |          |          |              |              |              | $\Box$       |  |  |
|           | 143                                    |   |          |  |          |          |              |              |              | $\Box$       |  |  |
|           | 144                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 145                                    |   |          |  |          |          |              |              |              | - 61         |  |  |
|           | 146                                    |   |          |  |          |          |              |              |              |              |  |  |
|           | 147                                    |   |          |  |          |          |              |              |              |              |  |  |
| igsquare  | 148                                    |   |          |  |          |          |              |              |              |              |  |  |
| $\square$ | 149                                    |   |          |  |          |          |              |              |              | Ш            |  |  |
| $\sqcup$  | 150                                    |   |          |  |          |          |              |              |              |              |  |  |